

SHAPE MEMORY ALLOY DISC REPLACEMENT DEVICE**Abstract**

A disc replacement device, such as for replacing a spinal disc between two vertebral bodies of the spine. The disc replacement device comprises an upper shell, a lower shell, and a plurality of compressible pillars each connecting the upper and lower shells and comprising a shape memory alloy. At least one of the plurality of pillars is interiorly offset from perimeters of the upper and lower shells. The disc replacement device may also include one or more fins comprising a shape memory alloy.